

Patent US 210D1
Edwards Ref: RMI-5707 CIP4CON5DIV
(formerly 269/089)

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims

1. (Currently Amended) A medical device comprising:
a tubular member having a proximal end, a distal end, and a lumen therebetween;
and
a filter removably insertable through the lumen of the tubular member, an axis of the filter extending perpendicular to an axis of the tubular member when inserted through the lumen, wherein the filter has a pore size of 50 to 300 microns and is adapted to allow a blood flow rate of 3L/min or more through the filter.
2. (Original) The medical device of claim 1, wherein the tubular member is fixed to an outer surface of a cannula.
3. (Original) The medical device of claim 2, wherein the cannula has a proximal end adapted to receive blood from a bypass-oxygenator machine.

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4. (Previously Presented) The medical device of claim 1, wherein the filter comprises:
a shaft having a proximal end and a distal end, wherein the distal end of said shaft is configured to be inserted in said tubular member while the proximal end of said shaft extends outside of said tubular member;
an expansion frame mounted on the distal end of the shaft, wherein said expansion frame is expandable between a contracted condition and an enlarged condition, wherein said expansion frame is deployable through a distal opening of said lumen; and
a filter mesh coupled to the expansion frame.
5. (Original) The medical device of claim 1, wherein the tubular member provides a hemostatic seal between the filter and the lumen.
6. (Original) The medical device of claim 4, wherein the expansion frame comprises a self-expanding material.
7. (Original) The medical device of claim 6, wherein the self-expanding material is a thin gauge metal.
8. (Original) The medical device of claim 6, wherein the self-expanding material is a shape-memory material.
9. (Original) The medical device of claim 4, wherein the expansion frame comprises an umbrella structure.
10. (Original) The medical device of claim 4, wherein the expansion frame comprises a plurality of struts.
11. (Original) The medical device of claim 4, wherein the expansion frame comprises a plurality of compressed springs.

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12. (Original) The medical device of claim 1, wherein the tubular member further comprises a suture flange.

13. (Original) The medical device of claim 2, wherein the lumen of the tubular member merges and communicates with a lumen of the cannula.

14. (Previously Presented) A medical device comprising:
a tubular member having a proximal end, a distal end, and a lumen therebetween;
and
a filter removably insertable through the lumen of the tubular member, the filter having an apex and an opening, the apex of the filter is distal the opening, wherein the filter has a pore size of 50 to 300 microns and is adapted to allow a blood flow rate of 3L/min or more through the filter.

15. (Previously Presented) The medical device of claim 14, wherein the tubular member provides a hemostatic seal between the filter and the lumen.

16. (Previously Presented) The medical device of claim 14, wherein the filter comprises:

a shaft having a proximal end and a distal end, wherein the distal end of said shaft is configured to be inserted in said tubular member while the proximal end of said shaft extends outside of said tubular member;

an expansion frame mounted on the distal end of the shaft, the expansion frame expandable between a contracted condition and an enlarged condition, the expansion frame deployable through a distal opening of the lumen; and

a filter mesh coupled to the expansion frame.

17. (Previously Presented) The medical device of claim 16, wherein the expansion frame comprises a self-expanding material.

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18. (Previously Presented) The medical device of claim 17, wherein the self-expanding material comprises a shape-memory material.

19. (Previously Presented) The medical device of claim 17, wherein the self-expanding material is a thin gauge metal.

20. (Previously Presented) The medical device of claim 16, wherein the expansion frame comprises an umbrella structure.

21. (Previously Presented) The medical device of claim 16, wherein the expansion frame comprises a plurality of struts.

22. (Previously Presented) The medical device of claim 16, wherein the expansion frame comprises a self-expanding material.